

PRODUCTION OF 1-HEXENE

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Abstract of JP9268135

PROBLEM TO BE SOLVED: To provide a method for producing 1-hexene by trimerizing ethylene in the presence of a chromium catalyst comprising three components, capable of obtaining the 1-hexene in extremely high purity by using an aliphatic hydrocarbon as a solvent and adding a specific aromatic hydrocarbon in a specified amount to the reaction system.

SOLUTION: This method for producing 1-hexene comprises trimerizing ethylene in the presence of a chromium catalyst comprising a chromium compound, an alkyl metal compound and highly safe and easily handleable imide compound. Therein, an aliphatic hydrocarbon is used as a solvent, and a 1-6C alkyl or halogen atom-substituted or non-substituted aromatic hydrocarbon is further added to the reaction system in an amount of 0.01-50vol.% based on the charged solution. The solvent is preferably cyclohexane, heptane, etc. The aromatic hydrocarbon is preferably toluene, butylbenzene, etc. The chromium compound is preferably a chromium carboxylate compound, etc., and the alkyl metal compound is preferably triethyl aluminum, etc. The imide compound is preferably maleimide, etc.

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